of the application as amended

Claim 23 has been an component of the inventions be selected in accordance w 6, and original claim 5. M subject matter which Appl the specification at page 5

> The Examiner bac being indefinite because transitional language "co the Examiner, this trans do not "materially" affe determination of what made in a vacuum, bu how the invention as

> > In the present at least an alkali-so soluble resin of for lightfastness withc 4, line 2). The sper

eis respectfully requested.

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Grended to recite the base as a requisite, as opposed to an optional, es claimed, and to recite a Markush group from which the base may in the disclosure in the specification at page 8, line 23-page 9, line New claims 71-79 have been added more completely to define the Cants regard as their invention in accordance with the disclosure in i lines 10-27.

Hrejected claim 23 under 35 USC 112, second paragraph, as allegedly the recitation of optional components is allegedly inconsistent with the Ensisting essentially of . Applicants respectfully disagree. As noted by initional language permits coverage of additional elements so long as they resct the "basic and novel" characteristics of the invention as claimed. A is constitutes the basic and novel characteristics of the invention cannot be  $_{
m ex}$  must be made in connection with the description in the specification and elaimed distinguishes over the prior art.

case, the specification shows that an ink composition minimally comprising Guble colorant, a water-soluble organic solvent, water and a cationic, watermula (I) can yield an improved image possessing good waterfastness and ut significant feathering or bleeding (see specification at page 3, line 4-page cification also shows that the other recited components (including the options components) do not detrimentally affect this outcome (see specification at page 10, line 3 to page 11, line 13 and the Examples). Moreover, as shown below, the claimed invention is patentable over the prior art without a consideration of the optional components. This being the case, it is respectfully submitted that there is no basis upon which it can be said that addition of the optional components would materially affect the basic and novel characteristics of the claimed ink, and indeed the Examiner has respectfully provided only a conclusory allegation in support of the rejection. In the absence of acceptable evidence or reasoning as to why the presence of the optional ingredients would materially affect the basic and novel characteristics of the ink composition without the optional components, it is respectfully submitted that the indication in the specification (to the effect that the optional components may be used consistent with the invention) must be taken as accurate (see *In re Marzocchi*, 169 USPQ 367, 370 (CCPA 1971)).

The Examiner has also rejected claims 23, 50, 52 and 69 under 35 USC 112, second paragraph, because the recitation that the recited resin having a repeating unit of formula (I) is "cationic" is allegedly indefinite. Applicants respectfully disagree. It is well known in the art that, generally, secondary or tertiary alkyl amines, such as are present in the compound of formula (I), are bases and become cations in a polar solvent. In a polar solvent, such as water in the claimed ink composition, the unshared pair of electrons of the nitrogen atom in formula (I) would be accepted by a hydrogen ion with formation of a covalent bond, and the nitrogen-containing group would thereby acquire a positive charge. Accordingly, the recited resin is in fact "cationic".

Certain of the claims have been rejected under 35 USC 102(b) as allegedly being

Certain other of the claims have been rejected under 35 USC 102 (b) as allegedly being anticipated by Tomita et al (US 5,017,224) or under 35 USC 103 (a) as allegedly being obvious over Tomita '224 in view of Taniguchi et al or over Stoffel et al in view of Tomita '224. Applicants respectfully traverse these rejections.

Tomita '224 describes an ink composition comprising polyamine resins that necessarily comprise between 3-20% primary amino groups in their molecular structure. Examples of repeating units that may be used together with the primary amino groups in the described polyamine resins include, but are not limited to, polyvinyl amine derivatives which encompass a species of the claimed repeating unit of formula (I). Nevertheless, there is nothing in the reference to show or suggest the selection of the claimed species for use in combination with the claimed base. Indeed, there is nothing in the reference that would show or suggest a preference have either anionic or cationic characteristics depending on the pH of the ink. By contrast, the claims require that the recited water-soluble resin be cationic (not amphoteric) and thus distinguish over the cited reference and combination of references on this basis alone. Indeed, in teaching the desirability of an amphoteric polymer, the reference teaches away from a combination that would arrived at the claimed ink composition comprising a cationic, water-soluble resin.

In view of the above, the claims as amended are believed patentably to distinguish over the cited art. Since all rejections and objections of record are believed to have been successfully traversed, the application is respectfully believed to be in allowable form. An early notice of allowability is earnestly solicited and is believed to be fully warranted.

Respectfully symitted

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09/047,717

An ink composition consisting essentially of an alkali-soluble U-011678-8 MARKED-UP COPY

colorant, a water-soluble organic solvent, water, a cationic, water-soluble resin, a base and, Claim 23. (amended)

optionally, one or more of a base, a nonionic water-soluble resin and an assistant selected from

the group consisting of a penetration accelerator, a viscosity modifier, a surface tension modifier,

a hydrotropy agent, a humectant, a pH adjustor, an antimold, a chiclating agent, a preservative and

a rust preventive; the base being selected from the group consisting of a hydroxide of an alkali

metal, a hydroxide of an alkaline earth metal, ammonia, mono-, di-, and tri-lower alkylamines, iminobispropylamine. 3-diethylaminopropylamine, dibutylaminopropylamine.

methylaminopropylamine, dimethylaminopropanediamine, and methyliminobispropylamine, the cationic, water-soluble resin comprising a repeating unit represented by the following formula

(I):

wherein  $\mathbb{R}^1$  and  $\mathbb{R}^2$  which may be the same or different represent a hydrogen atom or a  $C_{1-5}$  alkyl group, provided that  $R^1$  and  $R^2$  do not simultaneously represent a hydrogen atom; and

n is 0, 1, or 2.



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